
WATERLINES

News affecting the management and use of Indiana's water resources

DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
FALL/WINTER 2004



Floodwaters near crest at Hazelton, Indiana



National Guard troops protecting weak point in levee at Hazelton, Indiana

DISASTER AGAIN

It seems lately that Hoosiers have been in a constant state of recovery from natural disasters. After experiencing flooding and tornadoes in 2003 and 2004, portions of Indiana received historical amounts of snow right before Christmas 2004 – up to 32 inches in south-central Indiana. Shortly after folks dug out, the year 2005 got off to a crippling start when a major ice storm and severe flooding struck the state. Very few areas of Indiana were spared.

Flooding occurred on several Indiana waterways, including, but not limited to, the Tippecanoe River, White Lick Creek, Muscatatuck River, Eel River, Big Blue River, Salt Creek, Wildcat Creek, and Wea Creek. Major flooding occurred along the

White, East Fork White, and Wabash rivers. New records were set at the White River at Edwardsport and the Wabash River at Mount Carmel. The White River at Hazelton approached its record stage.

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Indiana National Guard troops waged a flood fight in Hazleton in an effort to save the levee that protects about one-half of the small southern Indiana town. National Guard personnel also sandbagged at State Road 64 to protect East Mount Carmel. Hundred of thousands of sandbags were placed throughout the state in numerous towns and cities in an effort to protect homes and businesses – some more successfully than others.



Flood damaged manufactured homes after levee break in Sullivan County, Indiana

"Here's a scary moment", reported Al Shipe of the National Weather Service. The person in this mobile home, shown in the photo above, got out fifteen minutes before the levee broke. After the levee broke, floodwaters flipped her home over three or four times and carried it one-half of a mile or more. It landed in an upright position. Levee watchers had told her to leave for four days before this happened. Mr. Shipe continued, "I don't think people realize the power of floodwaters". This is only one of many stories from the events of the January flooding. People need to understand many aspects about the risks involved with flooding. One of those is that levees can fail. Another aspect is the importance of following emergency evacuation procedures.

Indiana received a Presidential Disaster Declaration as a result of the devastating damage. As of February 18, 87 of Indiana's 92 counties were included in that declaration. More than \$8 million in grants has been approved through the

Individuals and Household Program. Additionally, the Small Business Administration has approved loans totaling over \$81,000. These amounts will undoubtedly rise, as the deadline for registering with the Federal Emergency Management Agency (FEMA) for disaster assistance is March 22. ~

NEW DNR DIRECTOR



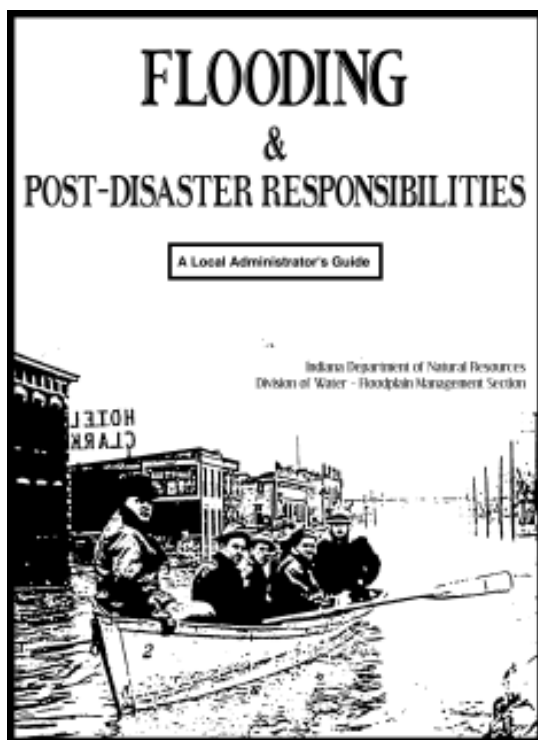
Pendleton native Kyle Hupfer has replaced John Goss as DNR director. A 1995 graduate of Manchester College (bachelor's degree in business administration), he received his law degree from Indiana School of Law-Indianapolis in 1998.

Hupfer has been a partner at the law firm of Ice Miller in Indianapolis. His specialties at Ice Miller were mergers and acquisitions, corporate finance, and general corporate counseling. ~

POST-DISASTER GUIDANCE

The Floodplain Management Section of the Division of Water recently released a new publication, "Flooding & Post-Disaster Responsibilities: A Local Administrator's Guide." The goal of the publication is to provide guidance to local permit officials in the tasks associated when disaster hits in an area identified as floodplain – with an emphasis on flooding.

As several Indiana communities experienced in 2003, 2004, and 2005, floods and tornadoes truly usher in a time of crisis. When established procedures are not in place, the difficulty of performing post-disaster tasks is multiplied. This new publication includes guidance for preparing before a disaster, but also details what steps need to be taken when disaster strikes. The process of completing damage assessments can be daunting. Sample worksheets, news releases, and other valuable forms have been incorporated into this guide to assist local floodplain administrators.



The accuracy and outcome of the damage assessments are vital. The damage assessments are used to determine how a damaged structure in a flood hazard area is permitted, or not, for repair or reconstruction. This, in turn, impacts insurance rates, eligibility for Increased Cost of Compliance benefits (rider on flood insurance policies), and potential mitigation funding (in cases of buy-out situations) for that structure.

Bound copies of this publication were provided to the floodplain administrators in Indiana's towns, cities, and counties that participate in the National Flood Insurance Program. Copies of the new guide are available for viewing or downloading on the Division's Web site, <http://www.IN.gov/dnr/water>. ~~~

CONFERENCE CORNER

ASSOCIATION OF STATE FLOODPLAIN MANAGERS (ASFPM) 2005 ANNUAL CONFERENCE

The ASFPM 2005 national conference will take place in Madison, Wisconsin on June 11-17. Planners, engineers, consultants, watershed managers, educators and others will gather with government officials for the largest and most comprehensive floodplain management conference in the world. Throughout the week, more than 150 of the industry's experts will conduct plenary and concurrent sessions, sharing state-of-the-art techniques, programs, resources, materials, equipment, accessories, and services to accomplish flood mitigation, watershed management and other community goals.

Visit ASFPM's Web site at www.floods.org, or call ASFPM at 608-274-0123, for complete conference registration information. ~~~

NATIONAL FLOODPROOFING CONFERENCE III

The 3rd National Floodproofing Conference will be held in Charleston, West Virginia, September 12-16, 2005. The State of West Virginia's Office of Emergency Services, Huntington District Corps of Engineers, and Charleston Convention and Visitors Bureau have teamed up with the Association of State Floodplain Managers (ASFPM) and co-sponsors to bring state-of-the-art techniques in floodproofing to an area known not only for its natural beauty and friendly people, but also for its history of devastating floods. Floodproofing techniques, materials, floodproofing and elevation contractors, current issues and programs, and various means of funding floodproofing projects and new federal tax implications will be the focus of the conference.

Conference information, presentation/poster submittal guidelines and forms, registration forms, and the exhibitor's agreement will be published on the ASFPM Web site at www.floods.org. ~~~

2004 INAFSM CONFERENCE HIGHLIGHTS



The 8th Annual
I n d i a n a
A s s o c i a t i o n
f o r
F l o o d p l a i n
a n d
S t o r m w a t e r
M a n a g e m e n t
(I N A F S M)
Conference, held

on October 13-15, 2004, was quite a success. Each year INAFSM recognizes deserving individuals and organizations for outstanding projects and accomplishments. The City of Valparaiso was awarded the Excellence in Stormwater Management Award. The 2004 INAFSM Outstanding Stormwater Project Award went to the Cool Creek Watershed Management Plan. The Hamilton County Surveyor's Office was the owner. Clark Dietz, Inc. was the consultant for this plan.

Rod Renkenberger, PLS, CFM, Executive Director, Maumee River Basin Commission, was honored for his efforts with the Excellence in Floodplain Management Award. For this year's Outstanding Floodplain Management Project, the Indiana Department of Natural Resources Division of Water was recognized for the Digital Conversion of Flood Insurance Rate Maps.

The Excellent Strides in Floodplain Management Program Award was proudly presented to the Evansville-Vanderburgh County Building Commission. INAFSM Chairman Rick Eberly was the recipient of the 2004 Chairman's Award. Congratulations to this year's award recipients!

The conference also provided an opportunity for those wishing to take the Certified Floodplain Managers (CFM) exam. All nine individuals who elected to take the exam during the conference were successful. Congratulations to Jeffrey Clayton, Kerry Daily, Tanya Ford, Jeffrey Heiking, Patrick Kerr, John Kinley, John Lashenik, Sheila McKinley, and Chad Miller! They are Indiana's newest CFMs. ~~~

MAP MODERNIZATION UPDATE

The Engineering Service Center (ESC) of the Division of Water, along with the Floodplain Management Section, are busy holding scoping meetings with counties and communities scheduled for mapping updates for Federal Fiscal Year (FFY) 2005. These scoping meetings are the initial contact with the local officials and are a first pass at determining mapping needs to be addressed through restudies. After the scoping meetings are complete, ESC will develop scopes for each county for updating maps and entering into grant agreements with the Federal Emergency Management Agency (FEMA) for developing mapping products. ESC also has entered into agreements with Prison Enterprises Network Products and four engineering consulting firms for assistance with mapping and engineering for these studies.

The Division of Water is always seeking input regarding the scoping process. Any additional comments regarding the FFY 2005 counties should be addressed to the ESC section manager below.

For north counties (Adams, St. Joseph, Elkhart and Porter) – Raj Gosine (rgosine@dnr.in.gov)

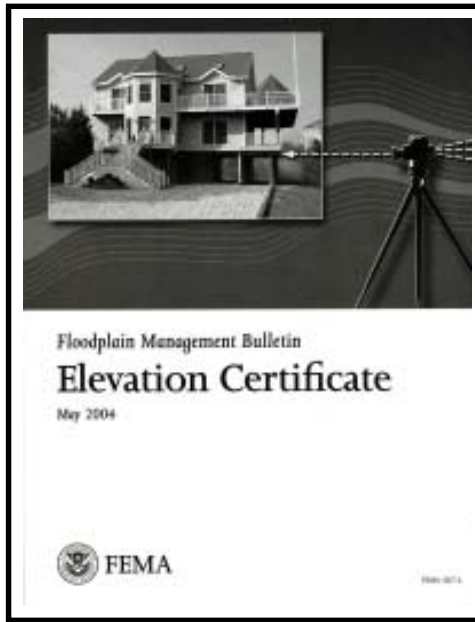
For central counties (Delaware, Hamilton, Madison, Vigo and Monroe) — David Knipe (dknipe@dnr.in.gov)

For south counties (Dearborn, Clark, Warrick, Floyd and Lawrence) — Suzie Delay (sdelay@dnr.in.gov)

Scoping for the FFY 2006 counties is scheduled to start this summer. A final "open house" has been held for DeKalb County, and the final "open house" is scheduled for Johnson County, so final maps are expected for both these counties in 2005. Work is progressing for maps in Lake, Tippecanoe, Hancock, Hendricks, Vanderburgh, Marion, and Allen counties. ~~~

NEW! FLOODPLAIN MANAGEMENT BULLETIN ON THE ELEVATION CERTIFICATE

The Federal Emergency Management Agency (FEMA) recently produced a new Floodplain Management Bulletin regarding the FEMA Elevation Certificate. The question/answer format is easy to follow and covers a wide variety of pertinent questions. The new bulletin is intended to help local floodplain management officials administer their community's floodplain management ordinance and to assist land surveyors, architects, and engineers who are authorized by law to certify elevation information on the Elevation Certificate. Insurance professionals who use the Elevation Certificate may also find the bulletin useful.



Copies of the new bulletin (FEMA 467-1) and the Elevation Certificate (FEMA Form 81-31) are available from the FEMA Distribution Center Facility at P. O. Box 2012, Jessup, MD 20794-2012. FEMA's Distribution Facility also accepts telephone requests (1-800-480-2520) and facsimile requests (301-362-5335).

In addition, Floodplain Management bulletins can be viewed and downloaded from the FEMA Web site at <http://www.fema.gov/fima/fpmbul.shtm>.

A copy of the Elevation Certificate is available on-line at <http://training.nfipstat.com/ecsurveyor/> which is also the Web site for the Elevation Certificate tutorial. ~~~

WELCOME



The Division's Floodplain Management Section welcomed a new staff member in October. Laura Kannapel joined the Floodplain Management Section as a planner. She is assigned to the responsibility of working with the National Flood

Insurance Program (NFIP) communities of northern Indiana.

Although Laura is new to the Floodplain Management Section, she is not new to the Division. Laura previously worked with the Compliance & Enforcement Section as well as the Technical Services Section of the Division of Water.

Welcome Laura! ~~~

PRECIPITATION REPORT FOR JULY THROUGH DECEMBER 2004

Although July proved to be a rather stormy month across most of Indiana, with above normal rainfall in most areas, flooding was not a major problem. More than seven inches of rain fell in portions of central Indiana during the month. From damp July, Indiana slid into a somewhat wet August. August was among the coolest and one of the wetter Augusts of record for most parts of Indiana, while other areas of Indiana experienced near-normal precipitation during this month.

September was a time to dry out for most of Indiana. Many areas received less than an inch of rain during the month. Rainfall was much below normal, with almost all of the rain falling in the first sixteen days. Evansville set a record for the driest September on record.

At the Indianapolis International Airport, September tied for the seventh driest September,



December 2004-Indianapolis, Indiana

with only 0.75 inches. No rain was recorded from the 18th through 30th. The only previous time this had occurred was in 1897. However, thunderstorms produced heavy rain across parts of northern Indiana early in the month, with the heaviest rain falling across the Fort Wayne metropolitan area. Another exception was in White County, with a reported five inches of rain at Monon on the 3rd, which resulted in flooding at a trailer park and a car dealership.

Northern Indiana enjoyed a beautiful, warm and drier-than-normal October. Of course, varied as Indiana can be, that wasn't the case everywhere. While most areas received two to six inches of rain, some areas of southern Indiana experienced a record wet October, a complete reversal from the preceding record dry September.

November 2004 continued the warm, wet and wild ways of October in much of Indiana. It began wet and ended wet. Much of central and southern Indiana received its first snow of the season. Amounts ranged from a trace to generally less than an inch in central Indiana.

In the final month of 2004, most of Indiana first experienced three weeks of rather mild wet weather, but the days that followed were much more memorable. On the 22nd of December, snow moved into the state. Four to nearly 10 inches of heavy snow had fallen. The greatest totals were in southern Indiana with about 10 inches of snow. A second snow system came through just a few hours later, with snowfall of four to more than 18 inches. Southern Indiana again took the brunt, with some areas reporting more than 30 total inches of snow by December 23rd – a historic snowstorm. ❄️



KEY:

ACTUAL (INCHES)
NORMAL (INCHES)



Locations	July 2004	August 2004	September 2004	October 2004	November 2004	December 2004	Totals 2004
CHICAGO	2.66	5.30	0.26	2.85	4.28	1.15	31.58
IL	3.51	4.62	3.01	2.71	3.01	2.43	36.01
SOUTH BEND	4.12	5.62	0.93	1.97	4.56	2.21	36.69
IN	3.73	3.98	2.86	3.27	3.39	3.09	38.77
FORT WAYNE	5.51	5.19	1.75	1.73	3.39	2.67	39.16
IN	3.58	3.60	2.81	2.63	2.98	2.77	36.51
INDIANAPOLIS	7.72	4.73	0.75	4.31	5.14	1.95	48.88
IN	4.42	3.82	2.88	2.76	3.61	3.03	40.95
EVANSVILLE	7.56	3.08	0.09	5.63	6.24	2.31	43.50
IN	3.75	3.14	2.99	2.85	4.18	3.54	44.34
LOUISVILLE	7.42	4.14	0.18	8.72	8.31	5.50	65.52
KY	4.30	3.41	3.05	2.79	3.80	3.69	44.52
CINCINNATI	6.14	3.51	1.53	6.13	5.15	2.80	48.31
OH	3.75	3.79	2.82	2.96	3.46	3.28	42.60

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Editor - Anita Nance

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